# CHEMOTEX-81

### Corrosion preventive concentrate

### CHEM-TEK, INC.

320 Barnes Road • Wallingford, CT 06492 • Tel: (203) 284-8000

### Description

Chemotex-81 corrosion preventive concentrate is a high solids base designed to allow the formulation of corrosion inhibitors yielding tough abrasion and solvent resistant films. It is especially useful where clear, thin, hard film coatings are desired.

The inorganic/organic corrosion inhibitor base of 81 corrosion preventive concentrate is highly polar in nature and can effectively displace water while forming strong bonds with the metal. This makes films exceptionally resistant to undercutting and blistering near damaged areas. In addition, 81, due to its adhesion and penetrating characteristics, can also be applied to surfaces with minimal surface preparation and still perform well.

#### Typical physical and chemical properties

	CHEMOTEX-81
Weight per U.S. gallon @ 25°C	8.19
Viscosity, Brookfield #6 spindle @ 10 RPM, 25°C, cps	10,000
Flash Point, PMCC, °F	105 minimum
Non Volatile by Weight, Federal Standard 141A,	
Method 4041.1 Color	70% Light Tan

### Availability

Chemotex-81 corrosion preventive concentrate is available in 5 or 55 gallon drums FOB Wallingford, CT.

### Safety, handling and storage

Caution: These products contain mineral spirits and are combustible by U.S. Department of Transportation standards. Use and store in a well ventilated area, away from heat, flames or sparks. Avoid prolonged breathing of vapors.

Prevent contact with eyes. In case of eye contact, flush with water for at least 15 minutes and call a physician. If swallowed, call a physician. If inhaled, remove to fresh air and call a physician.

In case of fire, extinguish with waterspray, waterfog, CO<sub>2</sub>, earth or sand, foam or dry chemical. In case of spills, absorb with an inert material such as earth, sand or vermiculite, and dispose of in accordance with Federal, State and Local regulations.

No warranties, express or implied, including warranties of merchantability or fitness for a particular use, are made with respect to the products described herein. Nothing contained herein shall constitute a permission or recommendation to practice any invention covered by a patent with a license from the owner of the patent.

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### GENERAL INFORMATION

### CHEMOTEX-81 FORMULATED COATINGS

Production Description:

A non-toxic high performance industrial maintenance coating designed for protection of structural steel in industrial environments. Chemotex-81 is a single component coating based on a combination of a calcium sulfonate complex and a proprietary resin system.

Type:

One component, calcium sulfonate based.

Recommended Uses:

These products are high build, corrosion resistant coatings that can be airless spray applied at package viscosity. The coatings have excellent resistance to salt air environments and to UV radiation. They are recommended for protection of steel structures not exposed to continuous contact with chemicals or solvents. These products develop superb adhesion to most metal types and may be formulated for use in water immersion service. Chemotex-81 may be formulated for use as a primer or a topcoat. Chemotex coatings develop excellent adhesion to rusty or wire brushed surfaces.

Colors/Pigment Incorporation:

A wide range of colors is possible. Colors may be formulated using colorants or by dispersing dry pigment with high speed dispersion equipment.

APPLICATION DATA:

Surface Preparation:

SSPC-SP6 required for optimum coating performance. A thorough SSPC-SP2 preparation is also acceptable.

Mixing Direction:

Chemotex coatings are highly resistant to pigment settling and phase separation. Mix thoroughly by hand.

Application Method:

Use airless or airspray for most areas. For airspray, reduce Chemotex-81 10-15% (by wt.) with mineral spirits and use pressure pot (gun pressure 60 PSI, pot pressure, 10 PSI). Ultimately the product may be brushed or rolled if spraying is not possible.

Thinning:

Not necessary under normal conditions. If required, use mineral spirits to thin (up to 15% by volume).

Drying Time:

To Touch: 16-24 hours
To Recoat: Overnight
Tack Free: 48-72 hours

Recommended Dry Film

Per Coat:

4.0 — 6.0 mils

Recommended Wet Film Per Coat (unreduced):

6.0 - 9.0 mils



### CHEM-TEK, INC. Rust Preventive Coatings

February 2,1990

Mr.Alfred Bietelman
Department of the Army
Construction Engineering Research Laboratory
Corps of Engineers
P.O.Box 4005
Champaign, IL 61820-1305

Dear Mr. Bietelman:

In reference to our phone conversation on Tuesday, January 30, the V.O.C. of Chemotex #81 is 250 Grams per liter. Since our product is ready for application without the addition of any solvents our V.O.C. will not change. Naturally other products that require the addition of solvents will have their V.O.C. altered at time of application.

This system can be either a one or two coat system. The exceptional wetting, corrosion resistance and antisag properties of this product are a direct result of the calcium sulfonate compound.

For the one coat test I am sending you a quart of product pigmented grey. For the two coat test I am supplying a quart of product pigmented red and a quart of grey topcoat. The advantage of a one coat system is naturally labor and traffic control savings.

Satisfactory performance will be obtained with an SSPC-SP2 or SP3 surface preparation. Optimal performance requires an SSPC-SP6 surface preparation. Recommended dry film thickness for one coat is 8 mils. For a two coat application 4 mils red and 3 to 4 mils grey. Allow 24 hours between coats.

You should receive the samples by February 10.If possible I would like to keep communications open between us during the testing period. If you have any questions feel free to call me at 1-800-544-6845.

I have enclosed some information on the product. Thank you.

Sincerely Yours,

George M. Wise Chem-Tek, Inc.

## MATERIAL SAFETY DATA SHEET



### SECTIONI

PRODUCT NAME OR NUMBER (as it appears on label) CHEMOTEX. #81	GM COMMON CODE				
MANUFACTURER'S NAME Chem-Tek Incorporated		EMERGENCY TELEPHONE.NO. 1-800-544-6845			
ADDRESS (Number, Street, City, State and Zip Code) 320 Barnes Road, Wallingford, CT 0649	ODRESS (Number, Street, City, State and Zip Code) 320 Barnes Road, Wallingford, CT 06492				
CTION II - CHEMICAL AND PHYSICAL PROPERTIES	CHEMICAL	PHY	SICAL		
When burning - CO, CO2 and oxi	FORM  8 Thixotropic liquid				
may be generated.  COMPATIBILITY IKEEP AWAY FROM!	ODOR				
Keep away from sparks, flames	Slight, kerosine-1  APPEARANCE  Dispersion				
ST ALL TOXIC AND HAZARDOUS INGREDIENTS Hydrotreat	ed light petroleum	7 60100			
DISCILLACE, CAS #64/42-4/-8 (H	ereafter referred	Tan			
to as mineral spirits)		SPECIFIC GRAVITY	0.983		
CTION III - FIRE AND EXPLOSION DATA		BOILING PT.	> 149		
ECIAL FIRE FIGHTING PROCEDURES	FLASH POINT IMETHOD USEDI P.M.C.C.	IBP	> 300		
The use of self-contained breathing apparatus is	FLAMMABLE LIMITS %	MELTING PT.	NA .		
recommended for firefighters.	27 LOWER 0.8 UPPER ?	14			
USUAL FIRE AND EXPLOSION HAZARDS	EXTINGUISHING AGENTS	SOLUBILITY IN WATER			
••	E DRYCHEMICAL E CO.	AT ALL °C	Negligibl		
	WATERSPRAY X FOAM	15 % VOLATILE.			
	WATERFOG & SAND/EARTH  28 - OTHER	16 BY WT %)	30%		
TION IV - HEALTH HAZARD DATA		EVAP. RATE			
MISSIBLE CONCENTRATIONS (AIR)		17, H20			
Mineral spirits - OSHA PEL: 295	$50 \text{ mg/m}^3 \text{ or } 500 \text{ pm}$	VAPOR PRESSURE 18 (mm Hg at 20°C)	<u>2mm</u>		
ECTS OF OVEREXPOSURE		VAPOR DENSITY 19 IAIR = 11	1		
May cause eye, nose and throat dizziness if used in unventilat CICOLOGICAL PROPERTIES	pH AS IS	Mildly alkaline			
NDA		20 PH	NA -		
RGENCY FIRST AID PROCEDURES		STRONG ACID	·		
		STRONG BASE			
ves - Flush immediately with large water for at least 15 min Call	a physician	STABLEUNSTABLE			
KIN CONTACT - Wash with soap and wate		21			
		VISCOSITY SUS AT 100°F	<pre></pre>		
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swallowed - Call a physician immedia	ately				
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SECTI	ON'V - SPECIAL	PROTECTION	INFORMATION	•				
	LATION TYPE REQUIR					PROTECTIVE GLOVES		
•					•	Rubber, o	il resis	tant
		Local ext	aust			EYE PROTECTION		
36				•	•			
RESPIR	RATORY PROTECTION	(SPECIFY TYPE)				Chemical Cal		oggies
	NIOSH app	roved ful	l face res	pirator wi	th	OTHER PROTECTIVE EQ	UPMENT	
an organic vapor			artridge.			Face shield		
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5	8Y D.O.T	48		NA			NA NA	
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EA	MERGENCY	50 NA	51	NA				
IN	IFORMATION	FREIGHT CLAS						
	CHEM TREC	52		oleum Oil				
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SU	PERSEDES							

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